

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE <b>J</b>		PAGE OF PAGES <b>1   4</b>	
2. AMENDMENT/MODIFICATION NO. <b>0001</b>		3. EFFECTIVE DATE <b>19-Dec-2003</b>		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY NAVAL SURFACE WARFARE CENTER, DAHLGREN D ATTN: XDS12 (BLD 183 RM 104) (XDS12@NSWC.NAVY.MIL) 17320 DAHLGREN ROAD DAHLGREN VA 22448-5100		CODE <b>N00178</b>		7. ADMINISTERED BY (If other than item 6)  <b>See Item 6</b>			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X 9A. AMENDMENT OF SOLICITATION NO. <b>N00178-04-R-2001</b>			
				X 9B. DATED (SEE ITEM 11) <b>01-Dec-2003</b>			
				10A. MOD. OF CONTRACT/ORDER NO.			
				10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
<b>13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.</b> <b>IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  <b>PURPOSE:</b> 1. Extends the solicitation closing date until 6 January 2004. 2. Provides answers to questions submitted by potential offerors.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR  _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA  BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED	

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## SUMMARY OF CHANGES

## SECTION SF 1449 - CONTINUATION SHEET

## SOLICITATION/CONTRACT FORM

The required response date/time has changed from 02-Jan-2004 02:00 PM to 06-Jan-2004 02:00 PM.

**The following items are applicable to this amendment:**

a. **Question:** Would NSWC Dahlgren consider adding other NAICS codes to the solicitation? For example, NAICS 334290 "Other Communications Equipment" is often used to refer to the type of fiber optic switch being sought in N00178-04-R-2001.

**Answer:** In accordance with FAR 19.102, a product shall be classified in only one industry for solicitation purposes. The specified NAICS, 334417, best describes the principal nature of the product being acquired even though it could be classified in more than one. The solicitation is unrestricted. All companies, regardless of size, may propose.

b. **Question:** Page 5, Paragraph 2.1: Optical Ethernet can be 100BASE-FX and 1000BASE-FX. Which should we comply with?

**Answer:** 100Base-FX is sufficient for current requirements.

c. **Question:** We are pleased that NSWC Dahlgren has decided to consider Optical-Electrical-Optical switches in addition to All-Optical switches. As a manufacturer of OEO Layer 1 switches we believe these systems offer some unique advantages. N00178-04-R-2001, however, seems to be oriented to All-Optical switches. Will accommodations be made for OEO switches? For example....

Page 5, Paragraph 2.4: The requirement to replicate power levels appears to apply only to All-Optical switches. OEO switches intentionally do not replicate but rather regenerate all signals through the switch. Will the fact that OEO switches do not replicate power levels be scored as a "fail"; putting OEO vendors at a disadvantage with respect to All-Optical vendors?

**Answer:** For OEO switches the output side of any connection is to be as close as possible to the range described in Paragraph 2.4 of the Statement of Work. For OEO switches the output side of any connection should be standards compliant. It is recognized that the OEO and OEO testing procedures for this requirement will vary.

d. **Question:** Page 21, Paragraph 4: Some of the empirical tests appear to be Applicable only to All-Optical switches (i.e. Measure the loss of the switch). Will OEO switches be tested differently?

**Answer:** This requirement only applies to an all optical switch.

e. **Question:** What wavelength ranges is the switch supposed to operate over?

**Answer:** For multimode the FDDI standard states that the source should be a 1300 nanometer LED with a range of 1270nm to 1380nm. For single mode the FDDI standard states that the source should be a 1300 nanometer LASER with a range of 1270nm to 1340nm for Category 1 LASERS and a range of 1290nm to 1330nm for category 2 LASERS.

f. **Question:** What is meant by the requirement for "replication of the input power levels in a range from -3 dB to +1 dB for any port"? Does this apply only to OEO switches? If it applies to OEO switches, what does it imply with regards to insertion loss and input signal ranges?

**Answer:** See answers provided above.

g. **Question:** The solicitation states that onsite demonstrations will not begin earlier than 10 working days after close of solicitation, but then states that offerors will be notified within 30 days. What is the minimum amount of time we can expect between when we are told a demo has to happen and that demo happening?

**Answer:** The Government will notify offerors at least 10 days prior to an onsite demonstration.

h. **Question:** When is the first procurement scheduled to take place (weeks, months or quarters after close of contract)?

**Answer:** The Government plans to award an Indefinite Delivery, Indefinite Quantity (ID/IQ) contract. Initial order(s) under this contract are expected in the second quarter of calendar year 2004.

i. **Question:** Is there any desired top speed optical rates such as OC-3....OC-768 etc?

**Answer:** There is no top speed desired beyond the physical standards cited in paragraph 2.1 of the Desired Performance and Construction Features.

j. **Question:** Does the product need to be both SONET and SDH compatible for Gateway functions or just SONET?

**Answer:** Neither SONET nor SDH are cited in the Desired Performance and Construction Features.

k. **Question:** Ref 2.11. As the word "port" is a dynamic term, what specific data rates are you referring to when using the term "port?" (IE 64k, E-1, T-1, etc..)

**Answer:** The Government defines the term "port" to mean an input and output pair. An originating port is typically linked to a destination port for a fixed period of time. This period of time is typically hours or days, as long as data transmission is required between the origin and destination. No data rates are cited.

l. **Question:** In 2.1 it specifies compliance. The ITU-T is not mentioned. Surely the product must comply with some of these standards. Any specific ones we need to consider? (i.e., Function in stand-alone mode, end terminal, rings, point to point, 2 fiber and/or 4 fiber rings,....)

**Answer:** The Government requires a physical layer switch and has limited the physical standards to those cited in paragraph 2.1 of the Desired Performance and Construction Features.

m. **Question:** Paragraph 2.10 states "local and remote capability..." Does the proposed solution need to interface to any existing local or remote management systems that are already in place?

**Answer:** Yes. The combat system engineering sites that will use the fiber optic switches outlined in the solicitation typically use site-wide custom switch control software driven by ASCII text commands transmitted via RS-232 or Ethernet control ports furnished with the switch.

n. **Question:** Does Dense Wave Division Multiplexing (DWDM) need to be considered for compatibility issues?

**Answer:** No. DWDM interfaces are not specified in the Desired Performance and Construction Features.

o. **Question:** Ref. 2.6 states "Support of one-way point to point transmission (simplex) and simultaneous two-way transmission (duplex)." From a technical approach, "simplex" is when a system operates without protection in a 1:0 configuration and "duplex" is when a system operates with a duplicated side for transmission protection in the event of a failure in a 1:1 configuration. I am assuming that by simplex you mean point-to-point with two "boxes" and by duplex you mean that the "box" should have the capability to operate in a Ring configuration network with a "box" to the east and a different "box" to the west enabling the solution to communicate with two separate "boxes". Is this assumption correct?

**Answer:** The Government does not concur in the potential offeror's expanded definitions of simplex and duplex.